

**METHODS AND COMPOSITIONS FOR TREATING GASTROINTESTINAL TRACT MUCIN
PRODUCTION ASSOCIATED DISEASE CONDITIONS**

ABSTRACT OF THE DISCLOSURE

The invention provides a method of treatment for an animal having a disease state associated with a mucus secretion disorder with a chloride channel modulator. The invention further provides for a method of screening for therapeutic compounds using the chloride channel. Also provided is a transgenic animal having a disrupted chloride gene, and a method of diagnosing a disease state associated with a mucus secretion disorder.

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